

Union Pacific Railroad

Robert Bavier

Hazardous Materials Management



**Program Manager
Hazardous Materials
Prevention**



2015 Fast Facts

Freight Revenue: \$20.4 billion

Route Miles Over 23 states: 32,100

Employees: 42,600

Annual Payroll: \$4.6 billion

Purchases Made: 8.5 Billion

2015 Capital Spending: \$4.3 billion

Capital Spending 2011-2014: \$14.6 billion

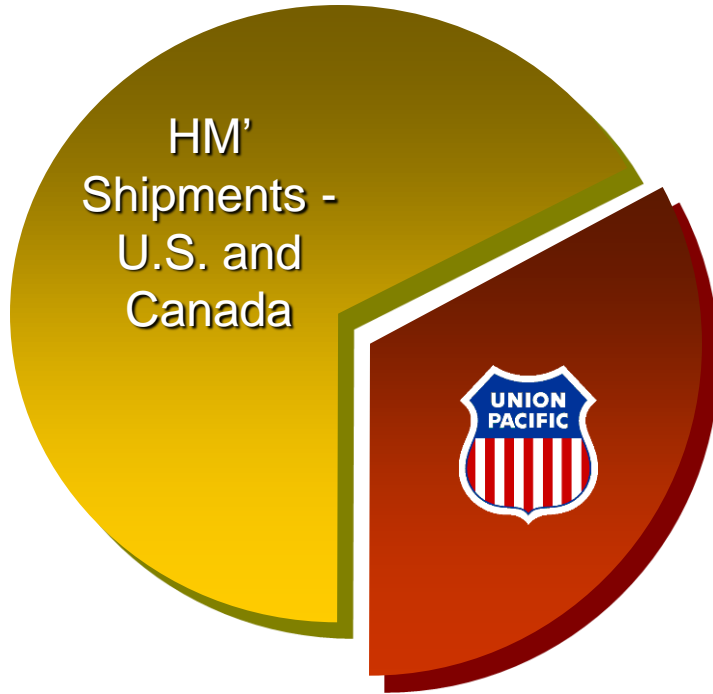
Locomotives: 8,500

For the year ending 12/31/15



Hazardous Materials 2015

Total hazardous materials tank car and intermodal



- **1.2 Million Total HM Movements**
 - **742K Loads**
 - **403K Residue**
- **191 Releases on UP**
 - **188 NARs (1 TIH)**
 - **3 Accident Releases**
- **99.98% Handled w/o Incident**

UPRR Hazardous Materials Management

Our Mission



The Hazardous Materials Management Group (HMM)

- **HMM** is responsible for compliance with the DOT's Hazardous Materials regulations by continuously monitoring the ever changing regulatory climate.
- **HMM** aggressively works to **prevent** hazardous materials releases, actively **prepares** for **response** activities, responds as necessary, and works across all departments to **recover**.



UPRR Hazardous Materials Management

Our Mission



- **Prevention** – Prevent releases of hazardous materials in transportation.
- **Preparedness** - Develop internal and external assets for response and recovery.
- **Response** – Emergency response to releases to protect health minimize impact and stabilize the incident.
- **Recovery** – Progress incident to normal operations and to the point where closure work can begin



Prevention



Inspections

- Tank car
- Train
- Crew audits

Training

- Employees
- Customers

Continuous Improvement

- Industry committees
- Equipment design improvements

Preparedness



Mobile Training Trailers.

Training Tank Cars. Schedule for large events, has a classroom built in.



Response Plans

- HMERP
- Community-Right-to-Know (Tier II)
- OPA-90

Training

- Public Responders
- Employees
- Private/Industry

Drills/Exercises

Commodity Flow Data

TRANS CAER



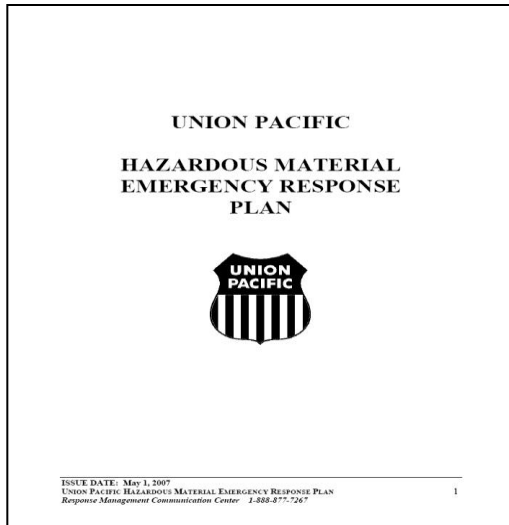
CHEMTREC
1971-2011: First in Response for 40 Years

The World's Leading Resource for information on
HAZARDOUS MATERIALS AND DANGEROUS GOODS.

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Preparedness - HMERP



To guide our actions:
**Hazardous Materials
Emergency Response Plan
(HMERP)**

- Company level plan
- Employee responsibilities
- Incident command system (NIMS) and responsibilities
- Emergency response personnel – roles, responsibilities & training
- Other actions

Response



- **Safety**
 - Employees
 - Community
- **Coordination of Responders**
 - Public Responders (IC)
 - Regulatory Agencies
 - Specialized Contractors
- **Response Duties**
 - Analyze the problem
 - Plan the response
 - Implement plan
 - Evaluate & adjust



Union Pacific Hazardous Material Response network

- ★ Hazardous Materials Managers
- ★ Manager Site Remediation
- ★ Special Agent HazMat



Response – “It all starts here!”



UPRR's Response Management Communications Center

***1-888-UPRR-COP
(1-888-877-7267)***



For Emergencies Dealing with:

- Criminal Activities
- Crossing Accidents/Accidents, Not at Crossings
- Derailments
- Fires
- Hazardous Material Spills/Environmental Incidents
- Injured Parties/Fatalities
- Track Obstructions

Response Assets

UPRR Hazmat Response Assets



Firefighting Trailers

Omaha, NE

Chicago, IL

Colton, CA

Fort Worth, TX

Little Rock, AR

North Platte, NE

Portland, OR

Roseville, CA

Salt Lake City, UT

St. Louis, MO

Tulsa, OK

Response

Assets : Emergency response contractors



- Tactical response
- Wrecking operations
- Environmental remediation
- Advanced air monitoring - CTEH



Recovery



Product/Container Fate

- Product Removal/Transfer
- Container
- decontamination/cleaning

Incident Termination

- Debriefing
- Post Incident Analysis (PIA)
- Critique
- Required Reporting

Site Remediation

Restoration



UPRR Recovery Assets

Transfer Trucks/Trailers



- Colton, CA - Trailer
- North Little Rock, AR - Truck
- North Platte, NE - Trailer
- Roseville, CA - Trailer
- Tucson, AZ – Truck
- Portland, OR - Trailer

Questions?



Thank You !